

Figure 1 (page 1 of 3)

ATGATGTGCTTAAAGATCCTAAGAATAAGCCTGGCGATTTTGGCTGGGTGGGCACTCTGT 60
 M M C L K I L R I S L A I L A G W A L C (20)
 TCTGCCAACTCTGAGCTGGGCTGGACACGCAAGAAATCCTTGGTTGAGAGGGAACACCTG 120
 S A N S E L G W T R K K S L V E R E H L (40)
 AATCAGGTGCTGTTGGAAGGAGAACGTTGTTGGCTGGGGCCAAAGTTTGAAGACCCAGA 180
 N Q V L L E G E R C W L G A K V R R P R (60)
 GCTTCTCCACAGCATCACCTCTTGGAGTCTACCCAGCAGGGCTGGGAACCTACCTAAGG 240
 A S P Q H H L F G V Y P S R A G N Y L R (80)
 CCCTACCCGCTGGGGGAGCAAGAAATCCATCATA CAGGACGAGCAAAACGACACTGAA 300
 P Y P V G E Q E I H H T G R S K P D T E (100)
 GGAAATGCTGTGAGCCTTGTTCCCCCAGACCTGACTGAAAATCCAGCAGGACTGAGGGGT 360
 G N A V S L V P P D L T E N P A G L R G (120)
 GCAGTTGAAGAGCCGGCTGCCCCATGGGTAGGGGATAGTCTTATTGGGCAATCTGAGCTG 420
 A V E E P A A P W V G D S P I G Q S E L (140)
 CTGGGAGATGATGACGCTTATCTCGGCAATCAAAGATCCAAGGAGTCTCTAGGTGAGGCC 480
 L G D D D A Y L G N Q R S K E S L G E A (160)
 GGGATTGAGAAAGGCTCAGCCATGGCTGCCACTACTACCACCGCCATTTTCAACCCCTG 540
 G I Q K G S A M A A T T T T A I F T T L (180)
 AACGAACCCAAACAGAGACCCAAAGGAGGGGCTGGGCCAAGTCCAGGCAGCGTCGCCAA 600
 N E P K P E T Q R R G W A K S R Q R R Q (200)
 GTGTGAAGAGCGGGCGGAAGATGGGCAGGAGACTCCGGTATCTCTTACATTTCCAA 660
 V W K R R A E D G Q G D S G I S S H F Q (220)
 CCTTGGCCCAAGCATTCCCTTAAACACAGGGTCAAAAAGAGTCCACCGGAGGAAAGCAAC 720
 P W P K H S L K H R V K K S P P E E S N (240)
 CAAATGGTGGAGAGGGCTCCTACCGAGAAGCAGAGACCTTTAACTCCCAAGTAGGACTG 780
 Q N G G E G S Y R E A E T F N S Q V G L (260)
 CCCATCTTATACTTCTCTGGGAGGCGGGAGCGGCTGCTGCTGCGTCCAGAAGTGCTGGCT 840
 P I L Y F S G R R E R L L L R P E V L A (280)
 GAGATTCCCCGGGAGGCGTTACAGTGGGAAGCCTGGGTAAACCGGAGGGAGGACAGAAC 900
 E I P R E A F T V E A W V K P E G G Q N (300)
 AACCAGCCATCATCGCAGGTGTGTTTGATAACTGCTCCCACTGTCTAGTGACAAAGGC 960
 N P A I I A G V F D N C S H T V S D K G (320)
 TGGGCCCTGGGGATCCGCTCAGGGAAGGACAAGGGAAAGCGGGATGCTCGCTTCTTCTTC 1020
 W A L G I R S G K D K G K R D A R F F F (340)
 TCCCTCTGCACCGACCGCTGAAGAAAGCCACCATCTTGATTAGCCACAGTCGCTACCAA 1080
 S L C T D R V K K A T I L I S H S R Y Q (360)
 CCAGGCACATGGACCCATGTGGCAGCCACTTACGATGGACGGCACATGGCCCTGTATGTG 1140
 P G T W T H V A A T Y D G R H M A L Y V (380)
 GATGGCACTCAGGTGGCTAGCAGTCTAGACCAGTCTGGTCCCCTGAACAGCCCCTTCATG 1200
 D G T Q V A S S L D Q S G P L N S P F M (400)
 GCATCTTGGCGCTCTTTGCTCTGGGGGAGACAGCTCTGAGGATGGGCACTATTTCCGT 1260
 A S C R S L L L G G D S S E D G H Y F R (420)
 GGACACCTGGGCACACTGGTTTCTGGTTCGACCGCCCTGCCACAAAGCCATTTTCAGCAC 1320
 G H L G T L V F W S T A L P Q S H F Q H (440)
 AGTTCTCAGCATTCAAGTGGGGAGGAGGAAGCGACTGACTTGGTCTGACAGCGAGCTTT 1380
 S S Q H S E E A T D L V L T A S F (460)
 GAGCCTGTGAACACAGAGTGGGTTCCCTTTAGAGATGAGAAGTACCCACGACTTGAGGTT 1440
 E P V N T E W V P F R D E K Y P R L E V (480)
 CTCCAGGGCTTTGAGCCAGAGCCTGAGATTCTGTCGCCTTTGCAGCCCCCACTCTGTGGG 1500
 L Q G F E P E P E I L S P L Q P P L C G (500)
 CAAACAGTCTGTGACAATGTGGAATTGATCTCCAGTACAATGGATACTGGCCCTTCGG 1560
 Q T V C D N V E L I S Q Y N G Y W P L R (520)
 GGAGAGAAGGTGATACGCTACCAGGTGGTGAACATCTGTGATGATGAGGGCCTAAACCCC 1620
 G E K V I R Y Q V V N I C D D E G L N P (540)
 ATTGTGAGTGAGGAGCAGATTCTGCTGACGACGAGGCACTGAATGAGGCCTTCAGCCGC 1680
 I V S G E E Q I R L Q H E A L N E A F S R (560)
 TACAACATCAGCTGGCAGCTGAGCGTCCACCAGGTCCACAATTCCACCCTGCGACACCGG 1740
 Y N I S W Q L S V H Q V H N S T L R H R (580)
 GTTGTGCTTGTGAAGTGTGAGCCAGCAAGATTGGCAATGACCATTGTGACCCCGAGTGT 1800
 V V L V N C E P S K I G N D H C D P E C (600)

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GAGCACCCACTCACAGGCTATGATGGGGGTGACTGCCGCTGCAGGGCCGCTGCTACTCC	1860
E H P L T G Y D G G D C R L Q G R C Y S	(620)
TGGAACCGCAGGGATGGGCTCTGTACGTGGAGTGTAACAACATGCTGAACGACTTTGAC	1920
W N R R D G L C H V E C N N M L N D F D	(640)
GACGGAGACTGCTGCGACCCCCAGGTGGCTGATGTGCGCAAGACCTGCTTTGACCCTGAC	1980
D G D C C D P Q V A D V R K T C F D P D	(660)
TCACCCAAGAGGGCATAATGAGTGTGAAGGAGCTGAAGGAGGCCCTGCAGCTGAACAGT	2040
S P K R A Y M S V K E L K E A L Q L N S	(680)
ACTCACTTCTCAACATCTACTTTGCCAGCTCAGTGCAGGGAAGACCTTGACGGTGTGCTG	2100
T H F L N I Y F A S S V R E D L A G A A	(700)
ACCTGGCCTTGGGACAAGGACGCTGTCACTCACCTGGGTGGCATTGTCTCAGCCCAGCA	2160
T W P V D K D A V T H L G G I V L S P A	(720)
TATTATGGGATGCTTGGCCACACCGACACCATGATCCATGAAGTGGGACATGTTCTGGGA	2220
Y Y G M P G H T D T M I H E V G H V L G	(740)
CTCTACCATGTCTTTAAAGGAGTCAGTGAAGAGAATCCTGCAATGACCCCTGCAAGGAG	2280
L Y H V F K G V S E R E S C N D P C K E	(760)
ACAGTGCCATCCATGGAAACGGGAGACCTCTGTGCCGACACCGCCCCCACTCCCAAGAGT	2340
T V P S M E T G D L C A D T A P T P K S	(780)
GAGCTGTGCCGGGAACCAAGGACCCACTAGTGACACCTGTGGCTTCACTCGCTTCCCAGGG	2400
E L C R E P E P T S D T C G F T R F P G	(800)
GCTCCGTTTACCAACTACATGAGCTACACGGATGATAACTGCACTGACAACCTCACTCCT	2460
A P F T N Y M S Y T D D N C T D N F T P	(820)
AACCAAGTGGCCGAATGCATTGTATTTGGACCTAGTCTATCAGCAGTGGACTGAAAGC	2520
N Q V A R M H C Y L D L V Y Q Q W T E S	(840)
AGAAAGCCACCCCATCCCATTCACCTATGGTCATCGGACAGACCAACAAGTCCCTC	2580
R K P T P I P I P P M V I G Q T N K S L	(860)
ACTATCCACTGGCTGCCTCCTATTAGTGGAGTTGTATATGACAGGGCCTCAGGCAGCTTG	2640
T I H W L P P I S G V V Y D R A S G S L	(880)
TGTGGCGCTTGCACTGAAGATGGGACCTTTCTGTAGTATGTGCACACAGCTTCTCCCGG	2700
C G A C T E D G T F R Q Y V H T A S S R	(900)
CGGGTGTGTGACTCCTCAGGTTATTGGACCCAGAGGAGCTGTGGGGCCTCCTGATGTG	2760
R V C D S S G Y W T P E E A V G P P D V	(920)
GATCAGCCCTGCGAGCCAAGCTTACAGGCTGGAGCCCTGAGGTCCACCTGTACCACATG	2820
D Q P C E P S L Q A W S P E V H L Y H M	(940)
AACATGACCGTCCCCTGCCCCACAGAAGCTGTAGCTTGAGCTGCTCTTCCAACACCCG	2880
N M T V P C P T E G C S L E L L F Q H P	(960)
GTCCAAGCCGACACCTCACCCTGTGGGTCACTTCTTCTTATGGAGTCTCTCGCAGGTC	2940
V Q A C D T L T L W V T S F F M E S S Q V	(980)
CTCTTTGACACAGAGATCTTGCTGGAACAAGGAGTCAGTGACCTGGGGCCCTTAGAC	3000
L F D T E I L L E N K E S V H L G P L D	(1000)
ACTTTCTGTGACATCCCACTCACCATCAAAGTGCACGTGGATGGGAAGGTGTGGGGGTG	3060
T F C D I P L T I K L H V D G K V S G V	(1020)
AAAGTCTACACCTTTGATGAGAGGATAGAGATTGATGCAGCACTCTGACTTCTCAGCCC	3120
K V Y T F D E R I E I D A A L L T S Q P	(1040)
CACAGTCCCTTGTGCTCTGGCTGCAGGCCTGTGAGGTACCAGGTTCTCCGCGATCCCCCA	3180
H S P L C S G C R P V R Y Q V L R D P P	(1060)
TTTGCCAGTGGTTTGCCCGTGGTGGTGACATTCTCACAGGAAGTTCACGGACGTGGAG	3240
F A S G L P V V V T H S H R K F T D V E	(1080)
GTCACACCTGGACAGATGTATCAGTACCAAGTTCTAGCTGAAGCTGGAGGAGAACTGGGA	3300
V T P G Q M Y Q Y Q V L A E A G G E L G	(1100)
GAAGCTTCGCCTCCTCTGAACCACATTATGAGCTCCTTATTGTGGAGATGGGAAGGTG	3360
E A S P P L N H I H G A P Y C G D G K V	(1120)
TCAGAGAGACTGGGAGAAGAGTGTGATGATGGAGACCTTGTGAGCGGAGATGGCTGCTCC	3420
S E R T L G E E C D G D L V S G D G C S	(1140)
AAGGTGTGTGAGCTGGAGGAAGGTTTCAACTGTGTAGGAGAGCCAAGCCTTTGCTACATG	3480
K V C E L E E G F N C V G E P S L C Y M	(1160)
TATGAGGGAGATGGCATATGTGAACCTTTTGAGAGAAAAACAGCATTGTAGACTGTGGC	3540
Y E G D G I C E P F E R K T S I V D C G	(1180)
ATCTACACTCCCAAAGGATACTTGGATCAATGGGCTACCCGGGCTTACTCCTCTCATGAA	3600
I Y T P K G Y L D Q W A T R A Y S S H E	(1200)

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GACAAGAAGAAGTGTCTGTTTCCTTGGTAACTGGAGAACCTCATTCCCTAATTGACACA D K K K C P V S L V T G E P H S L I C T	3660 (1220)
TCATACCATCCAGATTTACCCAACCACCGTCCCCTAACTGGCTGGTTTCCCTGTGTTGCC S Y H P D L P N H R P L T G W F P C V A	3720 (1240)
AGTGAAAATGAACTCAGGATGACAGGAGTGAACAGCCAGAAGGTAGCCTGAAGAAAGAG S E N E T Q D D R S E Q P E G S L K K E	3780 (1260)
GATGAGGTTTGGCTCAAAGTGTGTTTCAATAGACCAGGAGAGGCCAGAGCAATTTTATT D E V W L K V C F N R P G E A R A I F I	3840 (1280)
TTTTTGACAACTGATGGCCTAGTTCCTCGGAGAGCATCAGCAGCCGACAGTGACTCTCTAC F L T T D G L V P G E H Q Q P T V T L Y	3900 (1300)
CTGACCGATGTCCGTGGAAGCAACCACTCTCTTGGAACTATGGACTGTCTATGCCAGCAT L T D V R G S N H S L G T Y G L S C Q H	3960 (1320)
AATCCACTGATTATCAATGTGACCCATCACCAGAATGTCCTTTCCACCATACCACTCA N P L I I N V T H H Q N V L F H H T T S	4020 (1340)
GTGCTGTGAATTTCTCATCCCCACGGGTCCGCATCTCAGCTGTGGCTCTAAGGACATCC V L L N F S S P R V G I S A V A L R T S	4080 (1360)
TCCCGCATTGGTCTTTCCGCTCCAGTAAGTGCATCTCAGAGGACGAGGGGAGCAATCAT S R I G L K T C S A P S N C I S E D E G Q N H	4140 (1380)
CAGGGACAGAGCTGTATCCATCGGCCCTGTGGGAAGCAGGACAGCTGTCCGTATTGCTG Q G Q S C I H R P C G K Q D S C P S L L	4200 (1400)
CTTGATCATGCTGATGTGGTGAAGTGTACCTCTATAGGCCAGGTCTCATGAAGTGTGCT L D H A D V V N C T S I G P G L M K C A	4260 (1420)
ATCACTGTCAAAGGGGATTGCCCCCTCAGGCCAGCAGTGGCAGTACATCAGGCCCATG I T C Q R G F A L Q A S S G Q Y I R P M	4320 (1440)
CAGAAGGAAATTTCTGCTCACATGTTCTCTGCGGCACTGGGACCAGAATGTGAGCTGCCTT Q K E I L L T C S G H W D Q N V S C L	4380 (1460)
CCCGTGGACTGCGGTGTTCCCGACCCGTCTTGGTGAAGTATGCAAACCTCTCCTGCTCA P V D C G V P D P S L V N Y A N F S C S	4440 (1480)
GAGGGAACCAAATTTCTGAAACGCTGCTCAATCTCTGTGTCCCACCAGCCAAGCTGCAA E G T K F L K R C S I S C V P P A K L Q	4500 (1500)
GGACTGAGCCCATGGCTGACATGTCTTGAAGATGGTCTCTGGTCTCTCCCTGAAGTCTAC G L S P W L T C L E D G L W S L P E V Y	4560 (1520)
TGCAAGTTGGAGTGTGATGCTCCCCCTATTATTCTGAATGCCAACTTGCTCCTGCCTCAC C K L E C D A P P I I L N A N L L L P H	4620 (1540)
TGCCTCCAGGACAACCACGAGCTGGGCACCATCTGCAAATATGAATGCAAACCAGGGTAC C L Q D N H D V G T I C K Y E C K P G Y	4680 (1560)
TATGTGGCAGAAAGTGCAGAGGGTAAAGTCAGGAACAAGCTCCTGAAGATACAATGCCTG Y V A E S A E G K V R N K L L K I Q C L	4740 (1580)
GAAGGTGGAATCTGGGAGCAAGGCAGCTGCATTCTGTGGTGTGTGAGCCACCCCTCCT E G G I W E Q G S C I P V V C E P P P P	4800 (1600)
GTGTTTGAAGGCATGTATGAATGTACCAATGGCTTCAGCCTGGACAGCCAGTGTGTGCTC V F E G M Y E C T N G F S L D S Q C V L	4860 (1620)
AACTGTAACCAGGAACCTGAAAAGCTTCCCATCCTCTGCACTAAAGAGGGCCTGTGGACC N C N Q E R E K L P I L C T K E G L W T	4920 (1640)
CAGGAGTTTAAGTTGTGTGAGAATCTGCAAGGAGAATGCCACCACCCCTCAGAGCTG Q E F K L C E N L Q G E C P P P P S E L	4980 (1660)
AATTCTGTGGAGTACAAATGTGAACAAGCATATGGGATTGGTGCAGTGTGTTCCCCATTG N S V E Y K C E Q G Y G I G A V C S P L	5040 (1680)
TGTGTAATCCCCCAGTGACCCCGTGATGCTACCTGAGAATATCACTGCTGACACTCTG C V I P P S D P V M L P E N I T A D T L	5100 (1700)
GAGCACTGGATGGAACCTGCAAGTCCAGAGCATTGTGTGCACTGGCCGGCGTCAATGG E H W M E P V K V Q S I V C T G R R Q W	5160 (1720)
CACCCAGACCCCGTCTTAGTCCACTGCATCCAGTCATGTGAGCCCTTCCAAGCAGATGGT H P D P V L V H C I Q S C E P F Q A D G	5220 (1740)
TGGTGTGACACTATCAACAACCGAGCCTACTGCCACTATGACGGGGGAGACTGCTGCTCT W C D T I N N R A Y C H Y D G G D C C S	5280 (1760)
TCCCACTCTCCTCCAAGAAGGTCATTCCATTGCTGTGCTGACTGTGACCTGGATGAGTGC S T L S S K K V I P F A A D C D L D E C	5340 (1780)
ACCTGCCGGGACCCCAAGGCAGAAGAAAATCAGTAA T C R D P K A E E N Q *	5376 (1791)

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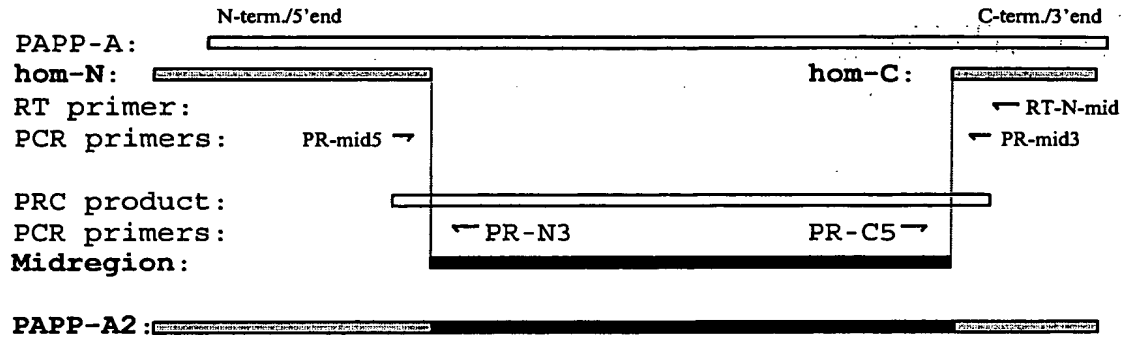


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PA2	mmkikilrislailagvalhsanSELGWTRKKSILVEREHLNOVLLEGSPNLGAKVRPRASPOHHLFGVYPSRAGNYLRFPYVGEQSIHHTGRSKPDTEGNAVSLVPPDLTENPAGLRG	120
PA	mrllwsvvlhlgllsaalgglaserPRRARDPRAGPRPRAAGPATATRGPRPRLAAAAAAGRAWEAVRVPRRQOR	80
N-terminal residue of mature PAPP-A2 (Ser-234)		
PA2	AVEEPAPAPVWGDSPIQSGELLGDDDAYLGNQSKESLGEAGIQKGSAMAAITTTAIFTTLEPEPETQRRGWAKSRQRQVWKRRAZDGGDSGISSHFQWPKHSLKRRVKKSPPEESN	240
PA		
N-terminal residue of mature PAPP-A (Glu-81)		
PA2	QNGGEGSYREAEFTNSQVGLPILYPSGRRLRLRLPEVLAEIPREAEFTVEANVWKEGGQNNPAILIAGVFTNLSHTVSDKGWALGIRSGKDKGRDARFFPSLETRDRVKATILISHSRQ	360
PA	-----EARGATEEFPSPSRALYFSGRGEQLRVLRAADL-ELPRADFTLQVWLRAGGQSRPAVITGLYDKSISYISDRGWVVGIIHTISDQDNKDPFYFFSLKTRDARQVTTINAHRSYL	192
N-terminal residue of mature PAPP-A (Glu-81)		
PA2	PGTWTHTAATYDGRHMYLVDTQVASSLDQSGPLNSPFMASRSLLLGGDSSEGDHYFRHGLTILVFWSTALPQSHFOHSSQHSSGEEERATDLVLTASFVNTZWVFRDEKYPRLEV	480
PA	PGQVYVLAATYDQGMKLYVNGAVATSGEQVGGIFSLTQKRVLMGG--SALNHNRYGYIEHFSLMKRVARTQREILSDMETHGAHTALPOLLQENWNVNKHAWSPMDGSSPKVEF	310
PA2	LQGFEPFEPILSPLOPPIEGOTVQDNVELISQYNGYWLGRGEKVIQYQVNNIDDEGLNPIVSEEQIRLQHEALNEAFSRYNISWQLSVBQVNSTLRHVRVVLNPSKIGNDHDPPE	600
PA	SNHG--FLLDTSLEPPISGOTLDNTEVIASYNQLSSFRQPKVRYRVVNYEDDHKNPTVTREQVDFQHQLAEAFQYINISWELDVLEVNSSLRRRLILANDISKIGDENADPEH	428
LNR1		
PA2	EEPLTGYDGGDHR-LOGHYSNNRRDGLHVEENNNLNDFFDGDSEPOVADVRKTFDPDSPKRAYMSVKELKEALQNSTHFLNIYFASSVREDLAGAATFPWDKDAVTHLGGIVLSP	719
PA	NHTLTGHDGGDHRHLRHRHAFVKKHNGVQMDENYERFNFDGGEFDEPEITNVVTQTFDPDSPHRAYLDVNLKNIKLQGSTHNIFFAKSSEELAGAVATFPWDKDALMHGGIVLNP	548
LNR2		
PA2	AYYGMFGHTDTMIHEVGVILGLYVFRGVSERESNDPKEVPSMETGDLADTAPTPKSELREPPTSDEGCFTRFGAPFTNMSXTDDNTONTFNQVARMHLYLDLVYQWTE	839
PA	SFYGMFGHTDTMIHEVGVILGLYVFRGISEIQSDPHEMETEPSTGDLNDTNPAFKHSGDGPQNDTGCFHSFTNTPYNNHSTADDEGDSFTFNQVARMHLYLDLVYQWQOP	668
PA2	SRKPTPIPIPMVIGQTNKSLTIHWPPIISGVVYDRAGSISLGNATEDGTFRQYVHTASSRRVDSGGYWFEEAVGPPDVQDPEPSLQAWSPEVHYLMNMNTPPE-TECSLELLFQ	958
PA	SRKPAFVALAPQVLGHTTDSVTLEWFPPIIDGHFFERELGSANHILEGRILVQYASNASSPMPSPSGHSWPREAEGHPDVEQKSSVTVSNPSAVNHTVPPAPPEQGYLELEFL	788
PA2	HFVQADTLTLWVT--SFFMESSQVLFDTLELLENKESVHLGFLDTEEDIPLTIKLH-VDGKVSQVKVYTFDERIEIDAALLTSQPHSPLESGCARPVRYQVLRDPPFASGLFVVVTHSRK	1075
PA	YPLVPESLTIWTVSTDDSSGAVNDIKLLAVSGKNISLGPQNVFSDVPLTIRLWVGEVYGIQTYTLDHLEIDAAMLTSTADTFLDLKPLKYVVRDPPFLQMDVASIL-HLNRK	907
PA2	FTDVEVTPQGMQYQVLAEGAGELGEASFFLNHNGAPVGGDKVSRLEGGDDGDLVSGDGSKRVLESEGFNVGEPSLYMYEGDGEPEPFRKTSIVLEGIYTPKGYLDQWATRA	1195
PA	FVDMDLNLSVYQYVWITISGTESESPAVTYINGRGVGGDIIQKDGQSDDMNKINGDQSLFBRQVSPNIDEPSKYFHDGDGVSEEFQKTSIKIDGVYTPQGLDQWASNA	1027
PA2	YSSHEDKKKPVSLVTGEFHS-LITSYHPDLPNHRPLTGNFPAVASENETQDRSEQPEGLSKKEDEVMLVGFNRPGEARAIFLITDGLVPGEHQOFTVTLTLTVRGSNHSIGTY	1314
PA	SVSHQDQC-FPGWVIIGQPAASQVARTKVIDLSEGISQAWYFATISYPYSQLATT-----FNLRAVFSQPMVAAAVIHLVTDGTYGDKOETISVOLLDTKDOSHDLGLH	1135
SCR1		
PA2	GLSJOHNPLIINVTHQNVLPHHTISVLLNFSSPRVGISAVALTSSRIGLSAPSNISEDEGQNHQGSIIHRPGRQDQPSLLLDHADVVNNTSIGFGLMKAITRGFALQASSG	1434
PA	VLSGRNNPLIIPVVDLSQPFYHSQAVRVSSFLVAISGVALRSFNDPDTLSSG-RGETYSPAQGSVHFPALEKTDPELAVENASLNSSSDRYHGAQTVSERTGYVLQIRRD	1253
SCR2		
PA2	QYIRPMQK-EILLSSGHWDQNVSELPVGGVDPDSLVNYANFSSEGTKFLKRSISVPPAKLQGLSPWLTLLEDGLNSLFEVYKLEDPAPFIILNANLLLPALQDNHDVGTG	1552
PA	DELIKSQTQPSVTVTETGKWNKQVAGEFVDSIPDHRQVYAASFSPEGTTFGSGESFGRHFAQLKGNNSLLTLEDGLNSFPEALDELMLAPFFVFNADLQTARRENKRVGSGF	1373
SCR4		
PA2	KYBKPGYVVAESAEGKVRNELLKIQGLEGGIWZQGSIPVVEPPPPVFEGMYETNGFSLDSQVNLN-----QEREKLPILSTKEGLWTQEFKLENLQGEPPPPSELNS-VEYK	1666
PA	KYBKPGYHVPGSSR-KSKKRAFKTQTDGSGWQEGAVFVTSDPPPPKFGHLYQETNGFQFNSEIRIKSEDSASQGLGSNVIRKRDGTWNGSFHVGQEMQGSVP-NELNSNLKIQ	1491
SCR5		
PA2	EEQYGIGAVSPISVIPPSPVMLPENITADTLEHMEFVKVQSIATGRRQWHFDVVLVHTQSEFPQADGWTDTINNRAVHYDGGDSSSTLSSKKVIFFAADLDEGRDP	1785
PA	EPDGYAIGSEATSLDHNSESIILPMNVTVRDIPHNLNPTRVERVATAGLKWYPHALINVKGEFFPMGDNYEDAINNRAENYDGGDSTSTVKTKVTFPMSDLQGLDGRDP	1611
LNR1		
PA2	KAEENQ-----	1791
PA	QAQHSRKDLRGYSHG	1627

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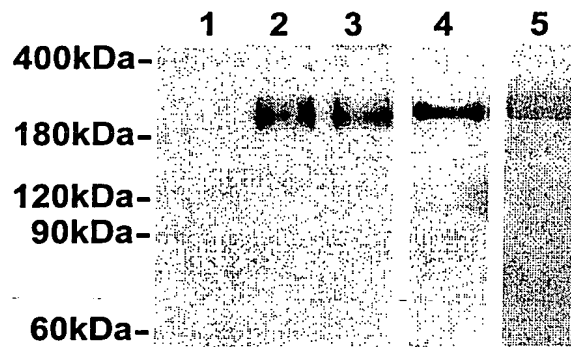


Figure 5 (page 1 of 1)

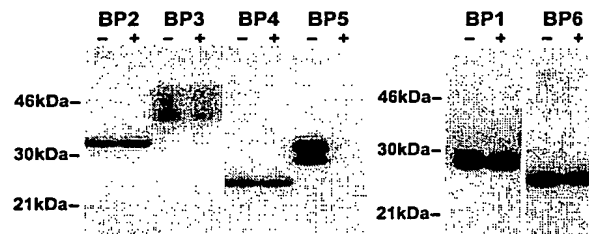


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ATGATGTGCT	TAAAGATCCT	AAGAATAAGC	CTGGCGATT	TGGCTGGGTG	GGCACTCTGT	60
TCTGCCAACT	CTGAGCTGGG	CTGGACACGC	AAGAAATCCT	TGGTTGAGAG	GGAACACCTG	120
AATCAGGTGC	TGTTGGAAGG	AGAACGTTGT	TGGCTGGGGG	CCAAGGTTCC	AAGACCCAGA	180
GCCTTCTCCAC	AGCATCACCT	CTTTGGAGTC	TACCCACAGC	GGGCTGGGAA	CTACCTAAGG	240
CCCTACCCCG	TGGGGGAGCA	AGAAATCCAT	CATACAGGAC	GCAGCAAACC	AGACACTGAA	300
GGAAATGCTG	TGAGCCTTGT	TCCCCCAGAC	CTGACTGAAA	ATCCAGCAGG	ACTGAGGGGT	360
GCAGTTGAAG	AGCCGGCTGC	CCCATGGGTA	GGGGATAGTC	CTATTGGGCA	ATCTGAGCTG	420
CTGGGAGATG	ATGACGCTTA	TCTCGGCAAT	CAAAGATCCA	AGGAGTCTCT	AGGTGAGGCC	480
GGGATTGAGA	AAGGCTCAGC	CATGGCTGCC	ACTACTACCA	CCGCCATTTT	CACAACCCCTG	540
AACGAACCCA	AACCAGAGAC	CCAAAGGAGG	GGCTGGGGCA	AGTCCAGGCA	GCCTCGCCAA	600
GTGTGGAAGA	GGCGGGCGGA	AGATGGGCAG	GGAGACTCCG	GTATCTCTTC	ACATTTCCAA	660
CCTTGGCCCA	AGCATTTCCCT	TAAACACAGG	GTCAAAAAGA	GTCCACCGGA	GGAAAGCAAC	720
CAAAATGGTG	GAGAGGGCTC	CTACCGAGAA	GCAGAGACCT	TTAACTCCCA	AGTAGGACTG	780
CCCATCTTAT	ACTTCTCTGG	GAGGCGGGAG	CGGCTGCTGC	TGCGTCCAGA	AGTGCTGGCT	840
GAGATTCCCC	GCGAGCGGTT	CACAGTGGAA	GCCTGGGTTA	AACCGGAGGG	AGGACAGAAC	900
AACCCAGCCA	TCATCGCAGG	TGTGTTTGAT	AACTGCTCCC	ACACTGTCTG	TGACAAAGGC	960
TGGGCCCTGG	GGATCCGCTC	AGGGAAGGAC	AAGGGAAAGC	GGGATGCTCG	CTTCTTCTCT	1020
TCCCTCTGCA	CCGACCGCGT	GAAGAAAGCC	ACCATCTTGA	TTAGCCACAG	TCGCTACCAA	1080
CCAGGCACAT	GGACCCATGT	GGCAGCCACT	TACGATGGAC	GGCACATGGC	CCTGTATGTG	1140
GATGGCACTC	AGGTGGCTAG	CAGTCTAGAC	CAGTCTGGTC	CCCTGAACAG	CCCCTTCATG	1200
GCATCTTGCC	GCTCTTTGCT	CCTGGGGGGA	GACAGCTCTG	AGGATGGGCA	CTATTTCCGT	1260
GGACACCTGG	GCACACTGGT	TTTCTGGTCG	ACCGCCCTGC	CACAAAGCCA	TTTTCAGCAC	1320
AGTTCTCAGC	ATTCAAGTGG	GGAGGAGGAA	GCGACTGACT	TGGTCCTGAC	AGCGAGCTTT	1380
GAGCCTGTGA	ACACAGAGTG	GGTTCCTCTT	AGAGATGAGA	AGTACCCACG	ACTTGAGGTT	1440
CTCCAGGGCT	TTGAGCCAGA	GCCTGAGATT	CTGTGCGCTT	TGCAGCCCCC	ACTCTGTGGG	1500
CAAAACAGTG	GTGACAATGT	GGAAATTGATC	TCCCAGTACA	ATGGATACTG	GCCCCCTTCGG	1560
GGAGAGAAGG	TGATACGCTA	CCAGGTGGTG	AACATCTGTG	ATGATGAGGG	CCTAAACCCC	1620
ATTGTGAGTG	AGGAGCAGAT	TCGTCTGCAG	CACGAGGCAC	TGAATGAGGC	CTTCAGCCCG	1680
TACAACATCA	GCTGGCAGCT	GAGCGTCCAC	CAGGTCCACA	ATTCCACCCT	GCGACACCGG	1740
GTTGTGCTTG	TGAACTGTGA	GCCCAGCAAG	ATTGGCAATG	ACCATTGTGA	CCCCGAGTGT	1800
GAGCACCCAC	TCACAGGCTA	TGATGGGGGT	GACTGCCGCC	TGCAGGGCCG	CTGCTACTCC	1860
TGGAACCCCA	GGATGGGGCT	CTGTCACTGT	GAGTGTAACA	ACATGCTGAA	CGACTTTGAC	1920
GACGGAGACT	GCTGCGACCC	CCAGGTGGCT	GATGTGCGCA	AGACCTGCTT	TGACCCTGAC	1980
TCACCCAGA	GGGCATACAT	GAGTGTGAAG	GAGCTGAAGG	AGGCCCTGCA	GCTGAACAGT	2040
ACTCACTTCC	TCAACATCTA	CTTTGCCAGC	TCAGTGCGGG	AAGACCTTGC	AGGTGCTGCC	2100
ACCTGGCCCT	GGGACAAGGA	CGCTGTCACT	CACCTGGGTG	GCATTGTCTT	CAGCCACAGC	2160
TATTATGGGA	TGCTTGGCCA	CACCGACACC	ATGATCCATG	AAGTGGGACA	TGTTCTGGGA	2220
CTCTACCATG	TCTTTAAAGG	AGTCAGTGAA	AGAGAATCCT	GCAATGACCC	CTGCAAGGAG	2280
ACAGTGCATG	TCATGGAAAC	GGGAGACCTC	TGTGCCGACA	CCGCCCCCAC	TCCCAAGAGT	2340
GAGCTGTGCC	GGGAACCAGA	GCCCAGTAGT	GACACCTGTG	GCTTCACTCG	CTTCCCAGGG	2400
GCTCCGTTCA	CCAATACAT	GAGCTACACG	GATGATAACT	GCACTGACAA	CTTCACTCCT	2460
AACCAAGTGG	CCCGAATGCA	TTGCTATTGT	GACCTAGTCT	ATCAGCAGTG	GACTGAAAGC	2520
AGAAAGCCCA	CCCCATCCC	CATTGCCACT	ATGGTCACTG	GACAGACCAA	CAAGTCCCTC	2580
ACTATCCACT	GGCTGCCTCC	TATTAGTGGA	GTGTATATAT	ACAGGGCCTC	AGGCAGCTTG	2640
TGTGGCGCTT	GCACTGAAGA	TGGGACCTTT	CGTCAGTATG	TGCACACAGC	TTCTTCCCGG	2700
CGGGTGTGTG	ACTCTCAGG	TTATTGGACC	CCAGAGGAGG	CTGTGGGGCC	TCTGTATGTG	2760
GATCAGCCCT	GCGAGCCAAG	CTTACAGGCC	TGGAGCCCTG	AGGTCCACCT	GTACCACATG	2820
AACATACGCG	TCCCCTGCCC	CACAGAAGGC	TGTAGCTTGG	AGCTGTCTTT	CCAACACCCG	2880
GTCCAAGCCG	CACACCTCAC	CCTGTGGGTC	ACTTCTCTCT	TCATGGAGTC	CTCGCAGGTC	2940
CTCTTTGACA	CAGAGATCTT	GCTGGAAAAC	AAGGAGTCAG	TGCACCTGGG	CCCCTTAGAC	3000
ACTTTCTGTG	ACATCCCACT	CACCATCAAA	CTGCACGTGG	ATGGGAAGGT	GTCGGGGGTG	3060
AAAGTCTACA	CCTTTGATGA	GAGGATAGAG	ATTGATGCAG	CACCTCTGAC	TTCTCAGCCC	3120
CACAGTCCCT	TGTGCTCTGG	CTGCAGGCCT	GTGAGGTACC	AGGTTCTCCG	CGATCCCCCA	3180
TTTGCCAGTG	GTTTGCCCGT	GGTGGTGACA	CATTCTCACA	GGAAGTTCAC	GGACGTGGAG	3240
GTCACACCTG	GACAGATGTA	TCAGTACCAA	GTTCTAGCTG	AAGCTGGAGG	AGAACTGGGA	3300
GAAGCTTCGC	CTCCTCTGAA	CCACATTCAAT	GGAGCTCCTT	ATTGTGGAGA	TGGGAAGGTG	3360
TCAGAGAGAC	TGGGAGAAGA	GTGTGATGAT	GGAGACCTTG	TGAGCGGAGA	TGGCTGCTCC	3420
AAGGTGTGTG	AGTGGAGGGA	AGGTTTCAAC	TGTGTAGGAG	AGCCAAAGCCT	TTGCTACATG	3480
TATTAGGGAG	ATGGCATATG	TGAACCTTTT	GAGAGAAAAA	CCAGCATTGT	AGACTGTGGC	3540
ATCTACACTC	CCAAAGGATA	CTTGGATCAA	TGGGCTACCC	GGGCTTACTC	CTCTCATGAA	3600
GACAAGAAGA	AGTGTCTGTG	TTCTTTGGTA	ACTGGAGAAC	CTCATTCCCT	AATTTGCACA	3660
TCATACCATC	CAGATTTACC	CAACCACCGT	CCCCTAAGTG	GCTGGTTTCC	CTGTGTTGCC	3720
AGTGAAGATG	AAACTCAGGA	TGACAGGAGT	GAACAGCCAG	AAGGTAGCCT	GAAGAAAGAG	3780
GATGAGGTTT	GGCTCAAAGT	GTGTTTCAAT	AGACCAGGAG	AGGCCAGAGC	AATTTTATT	3840
TTTTTGACAA	CTGATGGCCT	AGTTCCCGGA	GAGCATCAGC	AGCCGACAGT	GACTCTCTAC	3900
CTGACCCGAT	TCCGTGGAAG	CAACCACTCT	CTTGGAACTT	ATGGACTGTC	ATGCCAGCAT	3960
AATCCACTGA	TTCATCAATG	GACCCATCAC	CAGAATGTCT	TTTTCCACCA	TACCACCTCA	4020
GTGCTGCTGA	ATTTCTCATC	CCCACGGGTC	GGCATCTCAG	CTGTGGCTCT	AAGGACATCC	4080
TCCCGCATTG	GCTTTTCCGG	TCCCAAGTAA	TGCATCTCAG	AGGACGAGGG	GCAGAAATCAT	4140
CAGGGACAGA	GCTGTATCCA	TCGGCCCTGT	GGGAAGCAGG	ACAGCTGTCC	GTCATTGCTG	4200
CTTGATCATG	CTGATGTGGT	GAACTGTACC	TCTATAGGCC	CAGGTCTCAT	GAAGTGTGCT	4260
ATCACTTGTC	AAAGGGGATT	TGCCCTTCAG	GCCAGCAGTG	GGCAGTACAT	CAGGCCCATG	4320

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CAGAAGGAAA	TTCTGCTCAC	ATGTTCTTCT	GGGCACTGGG	ACCAGAATGT	GAGCTGCCTT	4380
CCCGTGGACT	GCGGTGTTCC	CGACCCGTCT	TTGGTGAAC	ATGCAAACTT	CTCCTGCTCA	4440
GAGGGAACCA	AATTTCTGAA	ACGCTGCTCA	ATCTCTTG	TCCCACCAGC	CAAGCTGCAA	4500
GGACTGAGCC	CATGGCTGAC	ATGCTCTGAA	GATGGTCTCT	GGTCTCTCCC	TGAAGTCTAC	4560
TGCAAGTTGG	AGTGTGATGC	TCCCCCTATT	ATTCTGAATG	CCAACTTGCT	CCTGCCTCAC	4620
TGCTTCCAG	ACAACCACGA	CGTGGGCACC	ATCTGCAAAT	ATGAATGCAA	ACCAGGGTAC	4680
TATGTGGCAG	AAAGTGCAGA	GGGTAAAGTC	AGGAACAAGC	TCCTGAAGAT	ACAATGCCTG	4740
GAAGGTGGAA	TCTGGGAGCA	AGGCAGCTGC	ATTCTGTGG	TGTGTGAGCC	ACCCCTCCTC	4800
GTGTTTGAAG	GCATGTATGA	ATGTACCAAT	GGCTTCAGCC	TGGACAGCCA	GTGTGTGCTC	4860
AACTGTAACC	AGGAACGTGA	AAAGCTTCCC	ATCCTCTGCA	CTAAAGAGGG	CCTGTGGACC	4920
CAGGAGTTTA	AGTTGTGTGA	GAATCTGCAA	GGAGAATGCC	CACCACCCCC	CTCAGAGCTG	4980
AATTTCTGTG	AGTACAAATG	TGAACAAGGA	TATGGGATTG	GTGCAGTGTG	TTCCCCATTG	5040
TGTGTAATCC	CCCCCAGTGA	CCCCGTGATG	CTACCTGAGA	ATATCACTCG	TGACACTCTG	5100
GAGCACTGGA	TGGAACCTGT	CAAAGTCCAG	AGCATTTGTG	GCAGTGGCCG	GCGTCAATGG	5160
CACCCAGACC	CCGTCTTAGT	CCACTGCATC	CAGTCATGTG	AGCCCTTCCA	AGCAGATGGT	5220
TGTTGTGACA	CTATCAACAA	CCGAGCCTAC	TGCCACTATG	ACGGGGGAGA	CTGCTGCTCT	5280
TCCCACTCTT	CCTCCAAGAA	GGTCATTCCA	TTTGCTGCTG	ACTGTGACCT	GGATGAGTGC	5340
ACCTGCCGGG	ACCCCAAGGC	AGAAGAAAAT	CAGTAACTGT	GGGAACAAGC	CCCTCCCTCC	5400
ACTGCCTCAG	AGGCAGTAAG	AAAGAGAGGC	CGACCCAGGA	GGAAACAAAG	GGTGAATGAA	5460
GAAGAACAAAT	CATGAAATGG	AAGAAGGAGG	AAGAGCATGA	AGGATCTTAT	AAGAAATGCA	5520
AGAGGATATT	GATAGGTGTG	AACTAGTTCA	TCAAGTAGCC	CAAGTAGGAG	AGAATCATAG	5580
GCAAAAGTTT	CTTTAAAGTG	GCAGTTGATT	AACATGGAAG	GGGAAATATG	ATAGATATAT	5640
AAGGACCCTC	CTCCCTCACT	TATATTCTAT	TAAATCCTAT	CCTCAACTCT	TGCCCTGCTC	5700
TCCGCTCCAC	CCCTTGCCAA	CTACTCAGTC	CCACCCAACT	TGTAAACCAA	TACCAAAATA	5760
CTAGAGGAGA	AGTTGGCAGG	GATACTGTTA	ATACCCATT	TGAATGGATT	GCCATCTTTC	5820
AGAGCTTGTC	TGCTCTCAAC	TGGCTCTTTT	TCTTTTTTGT	TAGTTTCCCT	TAAATAATGA	5880
AGTTAGTTAT	TAATCTTTTA	TAAGTATTTA	AACATAATTA	TATAAATATA	TTATATATAT	5940
TATATTTT	GCTGTTTTACT	AAGCTAAAAA	TTATTCATG	TTCCACACAT	GCTGCTGTGA	6000
AGTTCACATT	CAAGATGAAT	GTTGAGACTT	TGAGGACAGA	AAGGCAACTT	ATTTTCCCAT	6060
CTTTCTATGG	ATGCGGATTG	GCAGGTTGAA	TGGGAAGTAC	AGAAGGAGAG	AGAGTAATTA	6120
GATGGAATTC	TGGATGCTAG	CATGTAAGGC	TAATCATCTT	TTTTTTTATG	ACCTGGGAGC	6180
TGGGCCCAT	TTATGACCAA	GGAGATGGGG	AGTTGGAATG	GTGGTACTAA	GAGGCATAGG	6240
AAGTTGAGTG	TGAATACCAT	TGGTGATGGG	TCAGGAGAGG	CTAGACTATG	GTTCTTGAAT	6300
ATCTGTCCAC	AAAGAATATA	CTAACTTTTG	TCAACTTCTC	AGAACTCCCA	ACTGGAGTCG	6360
GTGAGACCTA	GATTTTTCTG	CACCTCCACA	CATGCCTGTT	CCAAGTGTGG	CTGTACAGCA	6420
GTCAACAAGT	TTGTACTATG	GCCCAATCTC	TGATCACCAG	GATTACAGGA	ACTCACACAC	6480
TCCTCATACT	TGGCCTGTAG	TCCTACTTCT	TGTTAGAAGT	CTCCAAGTCT	GGCCAGTCAC	6540
ATGACCAAGT	GTTGATTTTT	CTGGAGGAAA	AATTTTATGG	AAATGATATA	GGGGAAAGGT	6600
GGGAGGAGAT	GAAAGAACAG	GCAAGAGCTG	TCAGGGTTAA	ATCCAGGCC	GGGCATGAGA	6660
ATGGAAGTGA	TCAGGGAGAC	TCGGTCTTTG	TTCCAAGTCT	CCAAAGAAGA	CCAAAGTGGG	6720
TCCCTTGAGC	AATGAAGAA	CTGAGATAAA	TTCTCTTCAA	GTATCATGTA	CAAAATCTGT	6780
GAGCCAGAGA	TTTTGACTTG	AGCAAGCCAT	GGAAATGCAT	GGAGCAAGGG	TGACACTCTG	6840
TGGGGAGACA	GAAGAATTTT	AACTATTTAA	TGTCCATTTT	GTTGTTTTTA	CCCTTTCTTA	6900
TCCAATAGAT	GGAAATGCACA	TGAAATGACC	ATATTAAAGC	TCTCTCTATT	TACATCCAG	6960
GCTCACTGGG	ATGTGATCTA	CTGCAGTTAC	ATTTTCTTGT	AACGGTTTCT	GGATTAGACC	7020
CTAGGGAAAG	TGAGTAAGGA	GCCAGTTTCT	GTTTAAACAT	CTAGTTTAC	TCATTTTAGG	7080
AAGGCTGTGA	GTGAGGCTTG	TCTCCTTAA	AGTTTCTTCT	CCAATGGAAA	CCAAGAACAG	7140
ACAAAATTTA	GAGCTCAGCT	GTGGTCTCTT	CTCATCTTCT	GCTCTTTTGC	TTTGACCACA	7200
GTTTTTCTAC	TCTTCCATC	AACACTAGAG	CAATGGCTGT	GCAAATAGGA	ATAGGAAATA	7260
CTACCACAAT	GATAGAAATA	TTATCCACAC	TATCACGTAG	GGAAGAACAA	TATCCTGAAA	7320
GAGAATAAAA	CACGAATAAG	GTGATGTACC	CACATTAATC	TGTGGGTTTG	TGGAATGAGG	7380
GTTGCRAAGT	TATTGGGAAA	AGGAAGAGC	AGAGTTCACC	CATTCAAAAA	AAACCTTTTG	7440
TCTACTAATC	TCTAGTGTA	AGAAAATGTA	GTTTCAGATC	CATTCAATTG	CTTGGGTCAT	7500
GCTTAGTGCC	CCCAAGAAGA	CAAACATATT	TATTCTTGGG	ATTCTGATAG	GCTTCAATAT	7560
GCAAAGGACA	ATGGAAGAA	TTAGACACTC	TATTTTCAAA	ATTTTATAAA	CTTGTTTTAT	7620
TGGGGAAAA	GTCCAAATTG	CTAGACACAT	TCTAAGTTCT	GCCTTGAGGA	ATCCTACTTT	7680
GTCTGAGATT	GAGGCAGAGG	AATTGTTATC	CTGGGCATTA	CTCAGCTCAG	GAACATGGAG	7740
CCTGTGGTTC	ATGCCAGTGT	GTGTCTTCAT	GCAGTCTCTC	CACAAGAGCA	ACAGTAAGAA	7800
CATTCTGTT	TTAAATTTCA	TTTTTAAATA	TTTTTATATC	TGCAATTAC	CACTGCTCTG	7860
GGAAAGCAAA	AGGAAAGTTT	CTGTTGTGTG	TGAAGAGCCT	CTTAGGCTAT	AAGGCTTCCC	7920
AGCCATAGTC	AGCTATAGCT	ATTCAGAGAC	AGCAGTTTCT	TCCAGTCTTT	GTTCTGGGGA	7980
CCTGATGTTT	TGAGCAACTC	AGGTCACTGA	TAAAGTGGAA	GGACTAAGAC	ACTGTGGTCA	8040
CAGATCCCAG	CAACATCAAC	TCACACTCAA	TCCATGTGGT	GGTCCACATT	CTGCTACTCT	8100
TATCCACCCA	TGTGGTCATT	GAGAGCCTTT	CTCAGAGACT	CTTCTGTGTG	TTTGATTGTG	8160
CCCAGGTGGC	CCAGGGCTAG	CTGGCTCTAA	CAACTAGCAT	GACAGCTTCC	AATCAGAAAG	8220
GCAGGTAAGG	GGACAGGGTG	AGGAGAATGG	GCAGATACTG	ACAGAAATTA	AAGTAAAGGG	8280
ATTGTGAAAG	TAAAGAGCTC	TTTCTGATTC	TCATCTTCTC	TTTTTCTAT	TACAAGGCAT	8340
TGAACCTGGC	ACTTCTGTGA	TTCTTTGTGA	TCACTATTGA	GTGCATTAGT	TAACACCCAA	8400
GGGGATGGCT	TGATTGGGAA	TGTAGTGAAG	GGAGCTGATC	TACTGTATTG	TAATGTAAAA	8460
CAGCTACAGC	CAGTTATTTT	GTAAGATTAT	AAGTTGTTCA	TTAAAAAATC	AGCACACAAA	8520
ATATGAA						8527

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